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TO:

General Precision Laboratories  
Pleasantville, N. Y.

17 August 1959

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FROM:

SUBJECT: RADAN report covering the period of June and July 1959.

SUMMARY:

The RADAN worked good on all flights during this period except when flown at low altitude (below 500 feet).

There were a total of 10 flights in June, most of those being test hops, on which the RADAN was used. The equipment worked good on all flights except two which were at low altitude. There were seven flights in July (5 being test hops). RADAN worked good on all flights (no low altitude flown).

One complete RADAN set was shipped back 20 July, for use with the test program in the ZI.

Another Magnetron arrived to give a total of five spare Magnetrons L3049. Three of the five subassemblies shipped back for repair in February arrived 31 July. It is hoped that the other two (audio amplifiers) will follow.

The low altitude problem continues to be the main difficulty at this location. Several fixes tried have failed to significantly improve the situation. Several other ideas will be tried this coming month, and some help and advice from GPL is also expected.

DESCRIPTION: The flights during this period were as follows:

- 10 June-A/C 099 - 1 hr 10 min - RADAN operated good
- 16 June-A/C 099 - 1 hr 50 min - RADAN operated good
- 22 June-A/C 097 - 4 hr 10 min - RADAN operated good
- 23 June-A/C 099 - 1 hr 30 min - RADAN operated good
- 25 June-A/C 097 - 1 hr 30 min - RADAN operated good
- 25 June-A/C 099 - 1 hr 40 min - RADAN operated good
- 25 June-A/C 099 - 4 hr 10 min - RADAN operated good
- 27 June-A/C 097 - 1 hr 05 min - RADAN operated good
- 27 June-A/C 099 - 1 hr - RADAN operated good

DOCUMENT NO. 7

NO CHANGE IN CLASS 

DECLASSIFIED

CLASS CHANGED TO: TS/SC

NEXT REVIEW DATE:

AUTH: HR 70-2

DATE: 01/09/66 REVIEWER: 010956

29 June-A/C 097 - 11 hr 50 min - Didn't work when flown at  
29 June-A/C 099 - 1 hr 50 min - low altitude. At low altitude most of flight in visibility of 200 to 500 feet.  
6 July-A/C 097 - 45 min - RADAN worked satisfactory  
9 July-A/C 099 - 1 hr 30 min - worked okay except for short time at low altitude.  
21 July-A/C 097 - 1 hr 45 min - worked good  
22 July-A/C 097 - 7 hr 05 min - worked good  
23 July-A/C 097 - 7 hr 55 min - worked good  
29 July-A/C 097 - 1 hr - worked good

Two AFC assemblies and one Main Loop asy. arrived at the end of July. Still awaiting delivery are the following:

2 ea Audio Amplifiers - Shipped back for repair in February.  
3 ea L4801 Power Supply Filter Choke  
2 ea L4803 Power Supply Filter Choke  
1 ea AFC Assembly (new asy.) to replace one which was damaged beyond repair in February.

Although the RADAN equipment has been in good shape since February, the performance can not be considered satisfactory until the equipment can be made to operate to at least 200 feet altitude, and it would be better if even a lower altitude than this could be achieved.

FUTURE PLANS: Continued work on the low altitude problem with the objective of increasing the low altitude capability by about two hundred to three hundred feet.

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